

Pers. File

MEMORANDUM

DATE: March 7, 1980  
TO: Andy Vollmer  
FROM: Mike McCarrin *mtm*  
SUBJECT: Specifications for Soil Analysis

The following are specifications for soil analysis to be performed on samples obtained from the Kane County, Montgomery/Phillips Landfill. All samples presented are not to be analyzed. Only those boring locations and depths specified are to be examined. All reporting should be done on the sheets provided.

Two types of tests are to be performed, permeability and grain size. In those samples where both permeability and grain size are to be run, the permeability is to be done first so that the necessary amount of material is available. The remaining soil sample may then be used for the grain size analysis. If the remaining material is insufficient to complete the grain size test, this should be denoted on the analysis sheet. Results should be reported on the appropriate sample analysis sheet for each sample analyzed. Whatever material is left over should be replaced in the appropriate sample bottle and returned.

Grain Size. This test should be conducted according to specifications outlined in ASTM standard 422 (copy enclosed). Appropriate sieve sizes are denoted on the sample analysis sheet. Hydrometer tests should be performed to find the silt and clay percents in the samples. The largest clay size diameter represented should be .0002 mm. Fifty-one soil samples are to be analyzed.

Permeability. All samples are to be compacted to 100% relative density. Permeability should be done by constant head method for non cohesive materials as specified in ASTM method D2434 (copy enclosed). There are 25 soil samples to be tested for permeability.

MM:ct/0912B,6

cc: Drill Rig File (2)  
Rauf Piskin  
Joe Petrilli

EPA Region 5 Records Ctr.



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